



Bilkent University
Department of Mathematics

PROBLEM OF THE MONTH

Term: December 2012

Find the maximal possible value of the real number T for which the inequality

$$\frac{a+b}{b(2+a)} + \frac{b+c}{c(2+b)} + \frac{c+a}{a(2+c)} \geq T$$

is held for all positive real numbers a, b, c satisfying $abc = 1$.